PTO/SB/80 (11-04)

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# POWER OF APPLICATIONS BEFORE THE USPTO

APR 1 1 2005

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under						
37 CFR	3.73(b).	revious powers or attorney (	given in the applic	ation identified i	n the attache	ed statement under
I hereby	/ appoint:					
N Pra	actitioners assoc	ciated with the Customer Number:		24374		
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	on, Delaware					·
	<del></del>	ogether with a statement und	37 CEP 3 73(b)	E PTO/SB/06		-4. *
meu m ea	acii appiicatio	on in which this form is used	. The statement u	nder 37 CFR 3.73	l(h) may he co	ompleted by one of
me pract	itioners appo	inted in this form if the appo	inted practitioner i	is authorized to a	ict on behalf	of the assignee,
allu lilus	tidentity the t	application in which this Pow				<u> </u>
	The indi	SIGNATI Idual whose signature and litle is	URE of Assignee of F s supplied below is au	Record thorized to act on be	ehalf of the assi	ignee
Signature	(6	west		. 0	Date M	on 24,05
Name	Donald M. E	3oles V		Т	relephone 610-	
Title	Vice Preside	ent-Intellectual Property & C	hief Patent Coun			
This collection	on of information is	required by 37 CER 1.31, 1.32 and 1.3	00 Ti			

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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SEMP.	STATEMENT UNDE	R 37 CFR 3.73(b)
Applicant/Patent Owner: IPR Lic	ensing, Inc.	
Application No./Patent No.: 10/0	)65,719 6,700,450 Filed/Issue	Date: November 13, 2002 / March 2, 2004
Entitled: VOLTAGE-CONTROL	LED OSCILLATOR WITH AU	TOMATIC AMPLITUDE CONTROL CIRCUIT
IPR Licensing, Inc.	, a Corpo	ration
(Name of Assignee)		assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:  1. ☑ the assignee of the entire i	ight, title, and interest; or	
2. an assignee of less than the The extent (by percentage in the patent application/patent ic	) of its ownership interest is ——	
A. [ ] An assignment from the in in the United States Patent attached.	ventor(s) of the patent applicatio and Trademark Office at Reel _	n/patent identified above. The assignment was recorded, Frame, or for which a copy thereof is
OR		
below:  1. From:  The document was	To: -	
The document was	To:To:	atent and Trademark Office at
Reel	, Frame	, or for which a copy thereof is attached.
3. From:	To: _	
The document was	recorded in the United States Pa	atent and Trademark Office at, or for which a copy thereof is attached.
[ ] Additional documen	its in the chain of title are listed o	on a supplemental sneet.
must be submitted to Assign	., the original assignment docum	e are attached. ent or a true copy of the original document) n 37 CFR Part 3, if the assignment is to be
The undersigned (whose title is s	supplied below) is authorized to a	act on behalf of the assignee.
4/6/2004	· 	Anthony L. Venezia
Date 215-568-6400		Typed or printed name
Telephone number		Signature
		Patent Agent
		Tin -

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

### **ASSIGNMENT**

WHEREAS, Cognio, Inc. ("Assignor"), a Delaware corporation having a mailing address of 20400 Observation Drive, Suite 206, Germantown, Maryland 20876 is the owner of the entire right, title, and interest in and to the patent properties listed in Schedule A except to the extent set forth in Paragraph 2 "Limitation" of Schedule B (the "Identified IPR") and the know-how, copyrights and other intellectual property rights listed on Schedule B ("the IPR Blocks"); and

WHEREAS, IPR Licensing Inc., a Delaware corporation having a mailing address of Suite 105, Hagley Building, 3411 Silverside Road, Concord Plaza, Wilmington, Delaware 19810 and a wholly owned subsidiary of InterDigital Communications Corporation ("Assignee") is desirous of acquiring the entire right, title, and interest in and to the Identified IPR and IPR Blocks and the additional patent properties identified below (all of said Identified IPR, IPR Blocks, and patent properties being referred to herein as the "Assigned IPR Assets").

NOW, THEREFORE, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, does hereby SELL, ASSIGN, and CONVEY unto Assignee all right, title, and interest throughout the world in and to:

- The Identified IPR and the IPR Blocks;
- All inventions disclosed by the Identified IPR and the IPR Blocks;
- All patents and like protection that have now been or may in the future be granted and that claim the inventions disclosed by the Identified IPR and

- the IPR Blocks, whether in the United States of America or in any other country or place anywhere in the world;
- 4. All Patent Families (as defined in Schedule B hereto) of the Identified IPR and like grants, including without limitation, those obtained or permissible under past, present, and future law or statutes;
- 5. The right to Assignee to file in its name applications for patents and like protection for said Identified IPR and IPR Blocks in any country or countries foreign to the United States;
- All international rights or priority associated with said Identified IPR (said Identified IPR, IPR Blocks and any and all rights, including patents and patent applications, covered by Items No. 2-6 hereof collectively referred to herein as the "Assigned IPR Assets");
- 7. All rights of action on account of past, present, and future unauthorized use of said Assigned IPR Assets and for infringement of said Assigned IPR Assets and like protection; and
- 8. All past, present, and future rights of recovery for unauthorized use of said Assigned IPR Assets under any provisional rights or like protection;

The U.S. Commissioner of Patents and Trademarks and any and all similarly situated officials in other countries are hereby requested to issue Letters Patent in accordance with this Assignment.

#### **GENERAL**

1. Assignee hereby accepts the foregoing assignment but shall not assume any liabilities, debts and obligations associated with the Assigned IPR

- Assets, except for obligations for fees to maintain registrations or continue to prosecute the Identified IPR;
- 2. Assignor shall cooperate with Assignee, at Assignee's sole expense, in any action Assignee reasonably requests that Assignor take in order to effectuate, carry out, or fulfill the parties' intent and/or Assignor's obligations hereunder, including, without limitation, the execution of any instruments and papers that are necessary or desirable, in Assignee's sole discretion, to consolidate, confirm, vest and/or record Assignee's full and complete ownership of the Assigned IPR Assets with, for example, the U.S. Patent and Trademark Office or equivalent foreign offices;
- This Assignment shall inure to the benefit of Assignee and its successors and assigns and shall be binding upon Assignor and its successors and assigns;
- 4. This Assignment and all questions relating to its validity, interpretation, performance and enforcement shall be governed by and construed in accordance with the laws of the State of Delaware;
- 5. This Assignment and the Purchase Agreement between Assignee and Assignor dated March 9, 2005 contain the entire agreement and understanding of the parties relating to the subject matter hereof, and merge and supersede all the parties relating to the subject matter hereof. This Assignment may not be changed or modified, except by an agreement in writing signed by each of the parties; and
- 6. This Assignment may be executed by facsimile and in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly authorized representatives and Assignor has delivered this instrument to Assignee effective the 9th day of March, 2005.

ASIGNOR: Cognio, Inc.	1
Today's Date: March 9, 2005	By: HMM
State of Maryland	Title: fres. dent SS.:
County of Frederick ) On March 9,3005 before me, 5	
personally appeared Town McPhysoc the basis of satisfactory evidence to be the within instrument and acknowledged to me authorized capacity and that by his/her sign entity upon behalf of which the person acted	nersonally known or proved to me on person whose name is subscribed to the that he/she is executed the same in his/her ature on the instrument the person, or the
Witness my hand and official seal.	
NOTARY PUBLIC  PIECE OF FIEDERICK COUNTY  MARYLAND  MAY Commission Expires Juine 28, 2005	Notary Public
ASSIGNEE: IPR Licensing Inc.	
Today's Date: March 14, 2005	By: STATE
	Title: Vice President
County of New Cast le	SS.:
On March 14 7005 before me. Ca	personally known or proved to me on person whose name is subscribed to the that he/she is executed the same in his/her ature on the instrument the person, or the
Witness my hand and official seal.	
	Lather & S. S.
(	Notary Public

Schedule A - Identified IPR

CATHERINE E. SINKEWICZ
NOTARY PUBLIC
STATE OF DELAWARE
My Commission Expires Oct. 3, 2007

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Matter	Title	Filing Date	Serial Number	Country of Filing	Patent Number
Cognio777US	Allunable(Upconverter)Mixet With Image Rejection	0.1/20/2003	1072 5 (E2) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	United States of America	
Cognio7/PCT	Anunable Upconverter Mixer With Image Rejection			WPO-	
Cognio83US	Compensation Techniques for Group Delay Effects in Transmit Beamforming Radio Communication	02/13/2004	10/779,269	United States of America	
Cognio83PCT	Compensation Techniques for Group Delay Effects in Transmit Beamforming	06/01/2004	PCT/US04/17268	WIPO	
Cognio21PCT	Improving the Efficiency of Power Amplifiers In Devices: Using Transmit Beamforming	03/13/2003	PCT/US03/07561	wipo :	
Cognic21U5	improving the Efficiency (J. Rover, Amplifiers in Devices Using Iransmill Beamforming in	03/13/2903	rozagoes krije	United States of America	
Cognio21US2	timproving the Efficiency of Power. Amplifiers in Devices Using 1985	06/34/2004	0.8676245	United States of 1	
	Transmit Beamforming	例可能控制		Americal Land	
Cognio99US	master-Slave Local Oscillator Porting Between Radio Integrated Circuits	12/04/2003	10/707,312	United States of America	
	Firansmit Beamforming  Master-Slave Local Oscillator Porting Between Radio		10/707,312 03809045.7	United States of	
Cognio99US	Transmit Beamforming  Master-Slave Local Oscillator Porting Between Radio Integrated Circuits  Multiple: Input Multiple: Output IMIMO Radio Transceiver	12/04/2003	10/707,312 03809045.7	United States of America	67,28°517/B2
Cognio99US Cognio50CN	Transmit Beamforming  Master-Slave Local Oscillator Porting Between Radio Integrated Circuits  Multiple Input Multiple Output MIMO Radio Transcerver  Multiple Input Multiple Output Multiple Input Multiple Output Multiple Input Multiple Output Multiple Input Multiple Output Madio Transcerver	12/04/2003 12/12/2003 12/12/2003 10/12/2003 10/12/2003 10/12/2003 10/12/2003 10/12/2003 10/12/2003 10/12/2003	10/707,312 03809045/7 0765 388	United States of America  China  China  United States of America  America	
Cognio50US  Cognio50US  Cognio50US	Master-Slave Local Oscillator Porting Between Radio Integrated Circuits  Multiple Input Multiple Output MilMO Radio Transceiver Multiple Input Multiple Output Tradio Transceiver Tradio Transceiver Multiple Input Multiple Output Tradio Transceiver	12/04/2003 12/04/2003 12/04/2/0022 10/16/1/20022 10/12/1/2003	10/707,312 038090457 07855388 02/1080321 EG7/US08/12/85	United States of America  China  China  United States of America  United States of America States of A	
Cognio50US Cognio50TV Cognio50TV Cognio50TV Cognio50CT Cognio50CT Cognio50CT Cognio50CT Cognio50CT	Master-Siave Local Oscillator Porting Between Radio Integrated Circuits  Multiple Input Multiple-Output MIMO Radio Transceiver  Multiple Input Multiple-Output Radio Transceiver	12/04/2003 12/14/2003 12/14/2002 10/12/2003 10/12/2003	10/707,312 038090457 00/865 888 82/108082	United States of America  China  China  United States of America  United States of Americal  United States of America	
Cognio50US Cognio50US Cognio50TV	Master-Slave Local Oscillator Porting Between Radio Integrated Circuits  Multiple Input Multiple Output MilMO Radio Transceiver Multiple Input Multiple Output Radio Transceiver	12/04/2003 12/04/2003 12/04/2/0022 10/16/1/20022 10/12/1/2003	10/707,312 038090457 00/865 888 82/108082	United States of America  China  China  United States of America	

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Cognio97	Signal Sterfacing Techniques to Statisticy Integrated Circuit Radio Designs	05/14/2004	PCT/US04/15339	WIPO.	
Arvya40US s	Systemiano Weinodior Antenna Diversity Using Tental Power Ucini Meximal Ratio Combining	06/19/2002	TOWN TOWN	United States of America	678552062
Cognio40 TW	System and Method for Antennal Diversity Using Equal Royer Joint Waxing Rato Combining	02/26/2008	eigic odd Franciodd	Telwania di Sala	
(Cognio40PCT)	System and Methodici Antenna Diversity Using Equal Power Joint Maximal IR alto Combining Joint Maximal IR alto Combining	02/28/2003	Pojrjos yeste XX		
Cognic40US2	System-and/Method to /Antenna Otrosin/Using-Challed Ar- Joint/Meximalikatio/Combining	03/15/20044a	donescato la	United States of Management of the Carlotte of	
Aryya18US	System and Method for Antenna Diversity Using Joint Maximal Ratio Combining	06/19/2002	10/174,728	United States of America	6,687,492,B2
Cognio18TW	System and Method for Antenna Diversity Using Joint Maximal Ratio Combining	02/26/2003 <sup>:</sup>	92104059	Taiwan	224405
Cognio18PCT	System and Method for Antenna Diversity Using Joint Maximal Ratio Combining	02/26/2003	PCT/03/05642	WIPO	
Cognio18US2	System and Method for Antenna Diversity Using Joint Maximal Ratio Combining	10/28/2003	10/695,229	United States of America	
Cognid38US	System and Method for Joint Madmal Ratio Combining Using Time Doman Based Signal Processing	.07/18/2002 .07/18/2002	C1070881482	United States of America   -   2	
Cognio38TW ()	Ossemia ngi Metrico no Point Metrinal Railo Combining Using P Time-Domain Signal Processing 4			inglwards.	1226765
Cognio38PCT	System and Method of content Meximal Resido Combining Using Image Content Special Design (1997)	074:121.88	(Salvereza)		
Cognio38US240	System and Mathod or John System and Mathod System and Mathod System and Ime-Domain Based Signal Processing Mathod System and System	MARION CO.	07/07/50	United States of J America	
Cognio29PCT	System and Method for Multiple- Input Multiple Output (MIMO) Radio Communication	07/25/2003	PCT/US03/23408	-WIPÓ	
Cognio29US	System and Method for Multiple- Input Multiple-Output (MIMO) Radio Communication	07/25/2003	10/627,537	United States of America	
Cognio29US2	System and Method for Transmit Weight Computation for Vector Beamforming Radio Communication	02/13/2004	10/779,268	United States of America	
Anyya23US	Systems and Methods to fill in the system sand in the standard in the system in the system in the system is a system in the syst	106/18/2002	TOMPOSED TO	Writed States of America (2014)	

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Cognid28TW	STATE ; and Welheds for Improving Rendered Williast ; Wireless Communication;	102/28/2003	(4) (4) (6) (8) (4) (9) (4)	Talwan	
Cognio23RCT	Systems and Methods for Unproving Range to Multicast Wireless Communication	02/26/2003	PCT/03/05646	Wino and the second	
Cognio23US2	Systems and Methods for a limproving Range of Multicast	05/27/2004	•10/855 278 k	United States of Americal	
Cognio52US	Techniques for Correcting for Phase and Amplitude Offsets in a MIMO Radio Device	06/09/2003	10/457,293	United States of America	
Cognio52PCT	Techniques for Correcting for Phase and Amplitude Offsets in a MIMO Radio Device	09/09/2003	PCT/US03/28126	WiPO	
Cognio52US2	Techniques for Correcting for Phase and Amplitude Offsets in a MIMO Radio	06/02/2004	10/859,255	United States of America	
Cognio102US	Variable Gain Amplifier with Low Phase Variation	/01/1/2/2005	31/034/224 31/034/224	United States of America	
Cognio57US	Voltage-Controlled Oscillator with Automatic Amplitude Control Circuit	11/13/2002	10/065,719	United States of America	6,700,450 B2
Cogniõ8US ///	Improving Throughput in Multi- Rate Wirelass Networks Using Variable Length Packets and Other Lechniques	10/24/2002	100657494	United States of Arienca 113	

Matter	Títle	Filing Date	Serial Number
30014380.0008	Improving Throughput in Multi-Rate Wireless Networks Using Variable-Length Packets and Other Techniques	10/30/2001	60/330,755
Aryya18Prov	Antenna Diversity Scheme Using Joint Maximal Ratio Combining	03/01/2002	60/361,055
30014380.0021	Improving Efficiency of Power Amplifiers for WLAN Terminals Using Transmit Beamforming	03/21/2002	60/365,811
30014380.0022	Method for Maintaining Channel State Information at the Transmitter to Improve Link Quality in Multi-User WLAN Radio Systems	03/21/2002	60/365,775
30014380.0020	Improving Range and Throughput of Wireless LANs in Frequency Selective Fading Environments	03/21/2002	60/365,797
30014380,0023	Techniques for Improving Range In Composite Beamforming- Enhanced 802.11x Networks	03/21/2002	60/365,774

Arýya31Prôv	System and Architecture for Wireless Transceiver Employing Composite Beamforming and Spectrum Management Techniques	04/22/2002	60/374,531
Aryya39Prov	Reducing Cost of a Half-Duplex Transceiver Integrated Circuit By Sharing a Single Filter for Receive and Transmit Operations	04/29/2002	60/376,722
Aryya40Prov	Antenna Diversity Scheme Using Equal Gain Composite Beamforming	05/06/2002	60/380,139
Aryya53Prov	System and Method for Sharing an ADC and a DAC in a Half- Duplex Radio Transceiver	06/21/2002	60/319,336
Cognio44Prov	Half-Duplex Radio Transceiver Supporting Dual Band and Scalable Multi-Channel Operations	06/27/2002	60/319,360
Cognio57Prov	Voltage-Controlled Oscillator with Automatic Amplitude Control Circuit	07/29/2002	60/319,430
Cognio29Prov	System and Method for Vectorized Data Transmission Between Communication Devices	07/30/2002	60/319,437
Cognio50Prov	Radio Transceiver Having Multiple Integrated Receive and Transmit Paths and a Wideband Operation Mode	07/30/2002	60/319,434
Cognio52Prov	Techniques for Correcting Phase Mismatch in MIMO Radio Transceivers	09/10/2002	60/409,677
Cognio29Prov2	System and Method for Equal Power Vectorized Data Communication	04/10/2003	60/461,672
Cognio83Prov	Synchronization Algorithm to Compensate for Group Delay Effects on Transmit Beamforming	06/09/2003	60/476,982
Cognio29Prov3	System and Method for Vectorized Radio Communication	06/19/2003	60/479,945
Cognio97Prov	Signal Multiplexing Techniques to Simplify Integrated Radio Circuit Design	07/25/2003	60/481,139
Cognio99Prov	Master-Slave Local Oscillator Porting Technique Between Multiple Integrated Circuits	09/19/2003	60/481,399
Cognio29Prov4	System and Method for Transmit Weight Computation for Multiple-Input Multiple-Output (MIMO) Radio Communication	10/15/2003,	60/511,530
Cognio102Prov	Variable Gain Amplifier With Low Phase Variation	01/28/2004	60/539,643
Cognio97Prov2	Sharing a Connection Pin on a Radio Integrated Circuit for Transmit and Receive Signals	02/02/2004	60/481,995

Cognio73Prov	Interface Between MIMO Radio Chip and Baseband Chip	05/30/2003	60/474494
Aryya45Prov	RF Amplifier with Blas Boosting Scheme Using a Voltage Divider	05/30/2002	60/319,275
Aryya48Prov	RF Amplifier with a Self-Bias Boosting Scheme Using PNP Transistors	06/21/2002	60/319,335
Aryya47Prov	Blas Boosting Schemes for Cascode-Configured RF Transistors	06/21/2002	60/319,334
Aryya56Prov	RF Amplifier with a Blas Boosting Scheme for a Complementary Push-Pull Configuration	06/21/2002	60/319,337
.Cognla66Prov	Self-Blas Boosting Schemes for a Differential RF Amplifier	10/18/2002	06/319,629
Cognio72Prov	RF Amplifier with a Stable Bias Boosting Scheme	11/06/2002	06/319,672
Cognio55Prov	Method of Testing the Divider Circuitry of an Integrated Integer-N Style PLL or Fractional-N Style PLL	06/27/2002	60/319,361
Cognio62Prov	Frequency Synthesizer for Multi-Band Super-Heterodyne Transceiver Applications	09/04/2002	60/319,518
Cognio110Prov	A 5GHz Direct Conversion Receiver with DC Offset Correction (Published May, 2004, International Symposium on Circuits and Systems, pp. IV, 269-272)	10/07/2003	60/509,286
Cognio79Pròv	A Fully Integrated Power Detector	09/04/2003	60/481,327

## Schedule B - IPR Blocks

- 1) IPR BLOCKS ASSIGNED: Any and all know-how, copyrights and other intellectual property rights related to the Identified IPR set forth on Schedule A hereto (except to the extent set forth in Paragraph 2 below) and the FPGA Development Platforms, but excluding trademarks and the Excluded IPR Blocks.
- 2) LIMITATION: US provisional patent applications identified as Aryya31 Prov (Serial No. 60/374,531) and Cognio73 Prov (Serial No. 60/474494) each contain information related to the Excluded IPR Blocks, and that, notwithstanding anything to the contrary in this Agreement, Assignee's rights related to such applications extend only to support the priority date for US Patent Number 6,728,517 (with respect to Aryya31 Prov) and US Serial No. 10/707, 447 and PCT Serial No. PCT/USO4/15339 (with respect to Cognio73 Prov), all of which are part of the Identified IPR. Except for this patent and these non-provisional patent applications (and their divisionals, continuations, continuations in part, reissues, reexaminations, and foreign equivalents), no other Patent Families associated with such provisional applications are transferred under this Agreement.
- 3) NO ASSIGNMENT: No rights are being assigned to the Excluded IPR Blocks.

## 4) DEFINITIONS:

"Excluded IPR Blocks" means any and all patents, know-how, copyrights and other intellectual property rights related to Seller's ongoing spectrum analysis/management business. Notwithstanding anything to the contrary contained in this Agreement (with the exception of paragraph 2 "Limitation" of this Schedule B above), the Identified IPR shall not be considered part of the Excluded IPR Blocks.

"FPGA Development Platforms" means two MIMO technology development boards, one that receives and the other that transmits, with FPGA Xilinx programmable chips which together form a 4x4 configuration.

"IPR Blocks" means any and all know-how, copyrights and other intellectual property rights related to the Identified IPR (except to the extent set forth in paragraph 2 "Limitation" of this Schedule B above) and the FPGA Development Platforms, but excluding trademarks, the Identified IPR, and the Excluded IPR Blocks.

"Patent Families" means a patent application or patent and all associated patents and patent applications (including without limitation divisionals, continuations, continuations in part, reissues, reexaminations, and foreign equivalents thereof), if any, that share any common priority date or identical specification. In the case of continuations in part that include new matter, the new matter shall be considered part of the same Patent Family as the matter bearing the same priority date or identical specification.